

CLAIMS:

I claim:

- 5 1. A computer interface system, comprising:
 a microphone that receives audio input from a user;
 a voice recognition mechanism; and
 a graphical user interface that prompts the user for expected inputs that the user can speak
 at designated points in a dialog according to a specified grammar;
10 wherein prompts may specify the type of expected input;
 wherein prompts may specify words that are recognized by the system.
2. The system according to claim 1, wherein prompts that represent non-terminal tokens in
 the grammar are replaced with one of a set of other prompts in the grammar in response to
15 spoken input.
3. The system according to claim 1, wherein the graphical user interface is built
 automatically from a single dictionary and grammar specification.
- 20 4. The system according to claim 1, further comprising:
 at least one speaker that provides audio prompts for expected inputs.
5. The system according to claim 1, wherein a prompt may further comprise a second
 graphical user interface window.
- 25 6. The system according to claim 1, wherein the graphical user interface further comprises a
 pull-down menu.
7. The system according to claim 1, further comprising a set of reserved words that activate
30 specified prompts when spoken by the user.

8. A computer program product in a computer readable medium for use in a computer interface system, the computer program product comprising:
- first instructions for receiving audio input from a user;
 - second instructions for automatic voice recognition; and
- 5 third instructions for displaying a graphical user interface that prompts the user for expected inputs that the user can speak at designated points in a dialog according to a specified grammar;
- wherein prompts may specify the type of expected input;
 - wherein prompts may specify words that are recognized by the system.

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9. The computer program product according to claim 8, wherein prompts that represent non-terminal tokens in the grammar are replaced with one of a set of other prompts in the grammar in response to spoken input.

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10. The computer program product according to claim 8, wherein the graphical user interface is built automatically from a single dictionary and grammar specification.

11. The computer program product according to claim 8, further comprising:
fourth instructions for outputting audio prompts for expected inputs.

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12. The computer program product according to claim 8, wherein a prompt may further comprise a second graphical user interface window.

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13. The computer program product according to claim 8, wherein the graphical user interface further comprises a pull-down menu.

14. The computer program product according to claim 8, further comprising a set of reserved words that activate specified prompts when spoken by the user.

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- 30 14. A method for interfacing between a computer and a human user, the method comprising the computer implemented steps of:

receiving audio input from the user;
interpreting the audio input via voice recognition; and
displaying a graphical user interface that prompts the user for expected inputs that the user can speak at designated points in a dialog according to a specified grammar;

5 wherein prompts may specify the type of expected input;
wherein prompts may specify words that are recognized by the system.

16. The method according to claim 15, wherein prompts that represent non-terminal tokens in the grammar are replaced with one of a set of other prompts in the grammar in response to
10 spoken input.

17. The method according to claim 15, wherein the graphical user interface is built automatically from a single dictionary and grammar specification.

15 18. The method according to claim 15, further comprising:
outputting audio prompts for expected inputs.

19. The method according to claim 15, wherein a prompt may further comprise a second graphical user interface window.

20 20. The method according to claim 15, wherein the graphical user interface further comprises a pull-down menu.

25 21. The method according to claim 15, further comprising a set of reserved words that activate specified prompts when spoken by the user.